

FMEA
EMI FAILURE MODE, EFFECT ANALYSIS

01/02/90 SUPERSEDES / /

ANALYST:

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSED	REVISION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
PRESSURE TRANSDUCER FEEDWATER SUPPLY, ITEM 1320 ----- SV787793-5	Measures water reservoir pressure, feedwater side. Pressure sensor range is 0-40 psia.	1320P01: drifts high, fails full scale.	EVR	EMI ITEM: false indication of high water pressure.	FLIGHT: Ins. Logging of Reservt.	None.	3/10	Redundant paths are the feedwater supply line components and the SOP. No warning given for this failure. RIDS can monitor water pressure and alert the crewman as a crew workaround. Status check will show failed sensor. If detected, terminate mission and return to vehicle. With loss of feedwater, cooling and dehumidification will be lost. Activate SOP for helmet defog.	None.
----- SV787793-7 (1)	CAUSES: Electrical open in the resistive cell between the slider and ground. Mechanical shock causes a misalignment between the resistive element and the slider. Failure in the linkage bearing surfaces causes high friction.	QFE INTERFACE: Unable to detect when the emergency water supply is on-line.		MISALIGNMENT: None for single failure. Resultate EVN with subsequent loss of feedwater for cooling, and dehumidification.	GROUND: Ins. FEMU-B-001, Para. 7.3.3.2.1.1. 19. Transducer and FINE DCM Gauge REQUIRED; Calibration Check. N/A	A-PASS B-PASS AVAILABLE: C-PASS	N/A		
				CREW/VEHICLE: None for single failure. Possible loss of crewman with loss of SOP.					